Introduction to Genetics



In the 1860's, <u>Gregor Mendel</u> was able to demonstrate the "particulate" hypothesis of inheritance, or the <u>gene idea</u>.

& Parents pass discrete "heritable factors" (genes) to their offspring. Genes retain their individuality from generation to generation.

How does this differ from the blending model?

Mendel's Experimental Method

Mendel's plants had both female (carpel) and male (stamen) reproductive structures.

Normally pea plants <u>self-fertilize</u>.

- Mendel controlled the parent genes:
 - He prevented self fertilization by removing the stamen
 - He <u>cross-fertilized</u> the female with pollen from another flower
 - He allowed the carpel to develop into a pod containing seeds
 - The seeds grew into offspring plants with a particular character



Where did Mendel Begin?

Mendel isolated <u>true-breeding</u> varieties, that when self-pollinated, produce offspring identical to the parent for a particular <u>character</u>.

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